

Exxtral™ Performance Polyolefin CNR012

Polypropylene, Compounded (TPO)

Product Description

A specialty thermoplastic polyolefin resin designed for injection molded automotive applications.

General

Features	▪ Creep Resistant ▪ Good Surface Finish ▪ Medium Impact Resistance
Uses	▪ Automotive Applications
Appearance	▪ Black
Form(s)	▪ Pellets
Processing Method	▪ Injection Molding

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0 g/10 min	4.0 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.40 cm³/10min	5.40 cm³/10min	ISO 1133
Density	0.910 g/cm³	0.910 g/cm³	ISO 1183

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	3410 psi	23.5 MPa	ISO 527-2/50
Tensile Strain at Yield	8.7 %	8.7 %	ISO 527-2/50
Tensile Modulus - Secant	154000 psi	1060 MPa	ISO 527-2
Flexural Modulus	151000 psi	1040 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength			ISO 179
-4°F (-20°C), Complete Break	2.3 ft·lb/in²	4.8 kJ/m²	
32°F (0°C), Complete Break	3.5 ft·lb/in²	7.4 kJ/m²	
73°F (23°C), Complete Break	7.1 ft·lb/in²	15 kJ/m²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	117 °F	47.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	165 °F	74.0 °C	ISO 75-2/B

